

What is claimed is:

1. An exposure apparatus (10) comprising a lamp (1) and a condensor device (2), in particular for wavelength-dependent light outcoupling, wherein at least a first, preferably wavelength-dependent mirror layer (7) is located within an exposure beam path of a lamp (1) to divide the beam path into a first UV portion (14) used preferably for exposure, and into a second, primarily visible or IR spectral portion (15), and wherein a second mirror (16) is located in the beam path of the second spectral portion (15).
2. The device according to Claim 1, wherein a viewing screen (19) is located in the beam path of the light portion (17) of the second visible or IR spectral portion (15) reflected on the first, preferably wavelength-dependent mirror layer (7) before the second pass through this mirror layer (7).
3. The device according to one of the preceding claims, wherein imaging optics (18), in particular an aperture plate, are located between the viewing screen (19) and the first, preferably wavelength-dependent mirror layer (7) to image the lamp (1) on the viewing screen (19).
4. The device according to one of the preceding claims, wherein the second mirror (16) is designed curved in shape.
5. The device according to one of the preceding claims, wherein a condensor (2) is located in the beam path behind the lamp (1), and a reflector (22) is assigned to the lamp.
6. The device according to one of the preceding claims,

wherein a condensor (2) and the semipermeable mirror layer (7) are located in the beam path behind the lamp (1) in the ray direction, which semipermeable mirror layer (7) divides the light into a first, preferably UV portion (14) used for exposure, and a second spectral portion (15), preferably the visible and IR portion, whereby a mirror (16) is located in linear succession after the second spectral portion (15), which mirror (16) reflects the second spectral portion (15) back in the direction toward the semipermeable mirror layer (7), which is situated so as to divert part of the second spectral portion to the viewing screen (19).

7. An exposure method, in particular for wavelength-dependent light outcoupling, in which at least one first, preferably wavelength-dependent mirror layer (7) is penetrated by radiation within an exposure beam path of a lamp (1) to divide the beam path into a spectral portion used for exposure (14) and into a second spectral portion (15), wherein at least one part of the second spectral portion (15) is used to adjust the lamp (1).

8. The method according to Claim 7, wherein the second spectral portion is reflected on a second mirror (16) back in the direction toward the first, preferably wavelength-dependent mirror layer (7).

9. The method according to one of the Claims 7 and 8, wherein the light portion (17) reflected in the second pass by the first, preferably wavelength-dependent mirror layer (7) is imaged on a viewing screen (19).

10. The method according to one of the Claims 7 through 9, wherein the largest share of the second spectral portion is absorbed in or on cooling elements (20) in the lamp housing.

11. The method according to one of the Claims 7 through 10,

1 wherein the light emitted by a lamp (1) is bundled with the aid of a condensor (2)
2 and is divided into a spectral portion used for exposure (14) and into a second
3 spectral portion (15) by means of a first semipermeable, preferably wavelength-
4 dependent mirror layer (7), whereby the second spectral portion (15) penetrates
5 the mirror layer (7) and is reflected back by a second mirror (16) in the direction
6 toward the first mirror layer (7) and is partially diverted on the mirror layer (7) in
7 the direction toward the viewing screen (19), and an image of the lamp (1) is
8 created on the viewing screen (19).
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